

Title (en)
SELF-FOLDING POLYMER MICROPARTICLES

Title (de)
SELBSTFALTENDE POLYMER-MIKROTEILCHEN

Title (fr)
MICROPARTICULES POLYMERES AUTO-REPLIEES

Publication
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Application
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Priority
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Abstract (en)
[origin: WO2004041317A1] A method for forming three-dimensional polymeric particulate microstructures through self-folding of thin-film microparticles. Self-folding of two-dimensional polymeric precursors produces various three-dimensional particulate microstructures. Dumpling-like microstructures with oil cores and polymer coats are prepared by an interfacial-tension driven self-folding method. Roll-like and bowl-shaped hydrogel microstructures are fabricated by self-folding induced by differential volume shrinkage. Curled microstructures are produced by self-folding that is the result of a two-polymer or bilayer method wherein one of the polymers is a volume changeable polymer.

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IPC 8 full level
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